Substitute for form 1449A/PTO
(Modified)**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/727,090
Filing Date	December 2, 2003
First Named Inventor	Bliven, David C.
Art Unit	1746
Examiner Name	Chuo, Tony Sheng Hsiang
Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

Sheet	1	of	1
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TC	A1	US-2005-0058857 A1	03-17-2005	Rocke, Michael	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	B1					

qNON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁴
	C1		

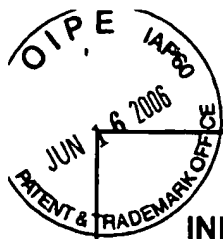
Examiner Signature	/Tony Chuo/ (07/27/2006)	Date Considered	
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Substitute for form 1449/PTO
(Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/727,090
Filing Date	December 2, 2003
First Named Inventor	Bliven, David C.
Art Unit	1746
Examiner Name	Chuo, Tony Sheng Hsiang
Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

Sheet **1** of **11**

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TC	A1	3,113,049	12-03-1963	Worsham	
	A2	3,134,697	05-26-1964	Niedrach	
	A3	3,282,875	11-01-1966	Connolly et al.	
	A4	3,297,484	01-10-1967	Niedrach	
	A5	3,301,893	01-31-1967	Putnam et al.	
	A6	3,684,747	08-15-1972	Coalson et al.	
	A7	3,692,569	09-19-1972	Grot	
	A8	4,036,714	07-19-1977	Spitzer	
	A9	4,038,213	07-26-1977	McClure et al.	
	A10	4,176,215	11-27-1979	Molnar et al.	
	A11	4,242,421	12-30-1980	Kudo et al.	
	A12	4,262,063	04-14-1981	Kudo et al.	
	A13	4,303,551	12-01-1981	Vaughan	
	A14	4,390,603	06-28-1983	Kawana et al.	
	A15	4,407,904	10-04-1983	Uozumi et al.	
	A16	4,407,905	10-04-1983	Takeuchi et al.	
	A17	4,417,969	11-29-1983	Ezzell et al.	
	A18	4,419,486	12-06-1983	Rose	
	A19	4,420,544	12-13-1983	Lawson et al.	
	A20	4,453,991	06-12-1984	Grot	
	A21	4,478,917	10-23-1984	Fujita et al.	
	A22	4,508,793	04-02-1985	Kumeta et al.	
	A23	4,537,840	08-27-1985	Tsukui et al.	
	A24	4,542,079	09-17-1985	Takeuchi et al.	
	A25	4,562,123	12-31-1985	Shimizu et al.	
	A26	4,576,877	03-18-1986	Alfenaar	
✓	A27	4,612,261	09-16-1986	Tsukui et al.	
	A28	4,629,664	12-16-1986	Tsukui et al.	

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			Application Number	10/727,090	
			Filing Date	December 2, 2003	
			First Named Inventor	Bliven, David C.	
			Art Unit	1746	
			Examiner Name	Chuo, Tony Sheng Hsiang	
Sheet	2	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

U.S. PATENT DOCUMENTS					
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TC	A29	4,640,873	02-03-1987	Tajima et al.	
	A30	4,642,274	02-10-1987	Tsutsumi et al.	
	A31	4,670,359	06-02-1987	Beshty	
	A32	4,670,702	06-02-1987	Yamada et al.	
	A33	4,673,624	06-16-1987	Hockaday	
	A34	4,680,240	07-14-1987	Furukawa et al.	
	A35	4,686,157	08-11-1987	Miyake et al.	
	A36	4,751,274	06-14-1988	Ittemann et al.	
	A37	4,755,272	07-05-1988	Plowman	
	A38	4,769,296	09-06-1988	Sterzel	
	A39	4,774,153	09-27-1988	Sterzel	
	A40	4,797,190	01-10-1989	Peck	
	A41	4,820,594	04-11-1989	Sugita et al.	
	A42	4,828,941	05-28-1991	Sterzel	
	A43	4,855,193	08-08-1989	McElroy	
	A44	4,865,925	09-12-1989	Ludwig et al.	
	A45	4,876,115	10-24-1989	Raistrick	
	A46	4,964,890	10-23-1990	Reuter et al.	
	A47	5,004,424	04-02-1991	Larminie	
	A48	5,019,463	05-28-1991	Matsubara et al.	
	A49	5,034,288	07-23-1991	Bossel	
	A50	5,061,581	10-29-1991	Narang et al.	
	A51	5,094,928	03-10-1992	Dyer	
	A52	5,102,751	04-07-1992	Narang et al.	
	A53	5,132,193	07-21-1992	Reddy et al.	
	A54	5,186,877	02-16-1993	Watanabe	
↓	A55	5,211,984	05-18-1993	Wilson	
	A56	5,229,222	07-20-1993	Tsutsumi et al.	

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			Application Number	10/727,090	
			Filing Date	December 2, 2003	
			First Named Inventor	Bliven, David C.	
			Art Unit	1746	
			Examiner Name	Chuo, Tony Sheng Hsiang	
Sheet	3	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TC	A57	5,234,777	08-10-1993	Wilson	
	A58	5,238,754	08-24-1993	Yasuo et al.	
	A59	5,252,410	10-12-1993	Wilkinson et al.	
	A60	5,262,250	11-16-1993	Watanabe	
	A61	5,302,471	04-12-1994	Ito et al.	
	A62	5,312,876	05-17-1994	Dang et al.	
	A63	5,312,895	05-17-1994	Dang et al.	
	A64	5,314,762	05-24-1994	Hamada et al.	
	A65	5,316,643	05-31-1994	Ahn et al.	
	A66	5,330,860	07-19-1994	Grot et al.	
	A67	5,334,463	08-02-1994	Tajima et al.	
	A68	5,346,780	09-13-1994	Suzuki	
	A69	5,362,836	11-08-1994	Helmer-Metzmann et al.	
	A70	5,366,820	11-22-1994	Tsutsumi et al.	
	A71	5,367,051	11-22-1994	Narang et al.	
	A72	5,384,208	01-24-1995	Brand et al.	
	A73	5,403,675	04-04-1995	Ogata et al.	
	A74	5,432,023	07-01-1995	Yamada et al.	
	A75	5,438,082	08-01-1995	Helmer-Metzmann et al.	
	A76	5,468,574	11-21-1995	Ehrenberg et al.	
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	A78	5,472,799	12-05-1995	Watanabe	
	A79	5,480,735	01-02-1996	Landsman et al.	
	A80	5,482,568	01-09-1996	Hockaday	
	A81	5,488,087	01-30-1996	Cabasso et al.	
	A82	5,503,944	04-02-1996	Meyer et al.	
✓	A83	5,505,851	04-09-1996	Wagener et al.	
	A84	5,523,177	06-04-1996	Kosek et al.	

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		Filing Date	December 2, 2003		
		First Named Inventor	Bliven, David C.		
		Art Unit	1746		
		Examiner Name	Chuo, Tony Sheng Hsiang		
Sheet	4	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

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TC	A85	5,525,436	06-11-1996	Savinell et al.	
	A86	5,540,981	07-30-1996	Gallagher et al.	
	A87	5,541,015	07-30-1996	Tajima et al.	
	A88	5,547,911	08-20-1996	Grot	
	A89	5,548,055	08-20-1996	Narang et al.	
	A90	5,561,202	10-01-1996	Helmer-Metzmann et al.	
	A91	5,573,866	11-12-1996	Van Dine et al.	
	A92	5,573,867	11-12-1996	Zafred et al.	
	A93	5,599,638	02-04-1997	Surampudi et al.	
	A94	5,624,965	04-29-1997	Huang et al.	
	A95	5,627,737	05-06-1997	Mackawa et al.	
	A96	5,631,099	05-20-1997	Hockaday	
	A97	5,633,098	05-27-1997	Narang et al.	
	A98	5,635,039	06-03-1997	Cisar et al.	
	A99	5,641,586	06-24-1997	Wilson	
	A100	5,656,389	08-12-1997	Tetzlaff et al.	
	A101	5,670,266	09-23-1997	Thomas et al.	
	A102	5,672,439	09-30-1997	Wilkinson et al.	
	A103	5,700,595	12-23-1997	Reiser	
	A104	5,702,755	12-30-1997	Mussell	
	A105	5,702,838	12-30-1997	Yasumoto et al.	
	A106	5,723,086	03-03-1998	Ledjeff et al.	
	A107	5,723,229	03-03-1998	Scheifers et al.	
	A108	5,731,104	03-24-1998	Ventura et al.	
	A109	5,741,408	04-21-1998	Helmer-Metzmann et al.	
	A110	5,759,712	06-02-1998	Hockaday	
	A111	5,773,162	06-30-1998	Surampudi et al.	
	A112	5,773,480	06-30-1998	Stone	

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TC	A113	5,783,325	07-21-1998	Cabasso et al.	
	A114	5,789,093	08-04-1998	Malhi	
	A115	5,795,496	08-18-1998	Yen et al.	
	A116	5,795,668	08-18-1998	Banerjee	
	A117	5,804,325	09-08-1988	Yepez	
	A118	5,834,523	11-10-1998	Steck et al.	
	A119	5,834,566	11-10-1998	Helmer-Metzmann et al.	
	A120	5,858,568	01-12-1999	Hsu et al.	
	A121	5,869,416	02-09-1999	Mussell	
	A122	5,874,182	02-23-1999	Wilkinson et al.	
	A123	5,882,810	03-16-1999	Mussell et al.	
	A124	5,885,338	03-23-1999	Nigam et al.	
	A125	5,886,890	03-23-1999	Ishida et al.	
	A126	5,906,716	05-25-1999	Mertesdorf et al.	
	A127	5,916,699	06-29-1999	Thomas et al.	
	A128	5,945,231	08-31-1999	Narayanan et al.	
	A129	5,952,119	09-14-1999	Wilson	
	A130	5,958,613	09-28-1999	Hamada et al.	
	A131	5,958,616	09-28-1999	Salinas et al.	
	A132	5,973,025	10-26-1999	Nigam et al.	
	A133	5,976,725	11-02-1999	Gamo et al.	
	A134	5,985,477	11-16-1999	Iwasaki et al.	
	A135	5,985,942	11-16-1999	Steck et al.	
	A136	5,992,008	11-30-1999	Kindler	
	A137	6,007,930	12-28-1999	Adams et al.	
	A138	6,010,798	01-04-2000	Hammerschmidt et al.	
	A139	6,024,848	02-15-2000	Dufner et al.	
↓	A140	6,025,085	02-15-2000	Savinell et al.	

Examiner Signature	/Tony Chuo/ (07/27/2006)	Date Considered	
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TC	A141	6,040,077	03-21-2000	Debe et al.	
	A142	6,045,934	04-04-2000	Enami	
	A143	6,057,051	05-02-2000	Uchida et al.	
	A144	6,068,941	05-30-2000	Fuller et al.	
	A145	6,071,635	06-06-2000	Carlstrom et al.	
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	A156	6,117,222	09-12-2000	Nigam et al.	
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	A158	6,127,055	10-03-2000	Simmons, Jr.	
	A159	6,136,463	10-24-2000	Kindler et al.	
	A160	6,146,781	11-14-2000	Surampudi et al.	
	A161	6,150,047	11-21-2000	Yen et al.	
	A162	6,171,444	01-09-2001	Nigam	
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	A164	6,175,512	01-16-2001	Hagihara et al.	
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	A167	6,221,523	04-24-2001	Chun et al.	
V	A168	6,228,518	05-08-2001	Kindler	

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				Application Number	10/727,090
				Filing Date	December 2, 2003
				First Named Inventor	Bliven, David C.
				Art Unit	1746
				Examiner Name	Chuo, Tony Sheng Hsiang
Sheet	7	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TC	A169	6,241,787	06-05-2001	Nigam	
	A170	6,248,460	06-19-2001	Surampudi et al.	
	A171	6,248,469	06-19-2001	Formato et al.	
	A172	6,248,480	06-19-2001	Narang et al.	
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			Filing Date	December 2, 2003	
			First Named Inventor	Bliven, David C.	
			Art Unit	1746	
			Examiner Name	Chuo, Tony Sheng Hsiang	
Sheet	8	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

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	A198	6,503,650	01-07-2003	Yasuo et al.	
	A199	6,586,561	07-01-2003	Litt et al.	
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	A215	2002/0103327	08-01-2002	Claub et al.	
	A216	2002/0106551	08-08-2002	Speranza et al.	
	A217	2002/0127450	09-12-2002	Xie	
	A218	2002/0127454	09-12-2002	Narang et al.	
	A219	2002/0132145	09-19-2002	Preidel	
	A220	2002/0142207	10-03-2002	Watakabe et al.	
	A221	2002/0164513	11-07-2002	Asano et al.	
	A222	2002/0172850	11-21-2002	Asano et al.	
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	A224	2002/0187377	12-12-2002	Shinoda et al.	

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				Application Number	10727,090
				Filing Date	December 2, 2003
				First Named Inventor	Bliven, David C.
				Art Unit	1746
				Examiner Name	Chuo, Tony Sheng Hsiang
Sheet	9	of	11	Attorney Docket Number	A-71429-1/RFT/VEJ (468940-00070)

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Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TC	A225	2002/0187379	12-12-2002	Yasuo et al.	
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	A227	2003/0044669	03-06-2003	Hidaka et al.	
	A228	2003/0059657	03-27-2003	Stone et al.	
	A229	2003/0077503	04-24-2003	Yoshitake et al.	
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Examiner Initials*	Cite No.	Foreign Patent Document Country Code ² Number ² Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
TC	B1	EP 0 068 508 B1	01-05-1983	Hitachi, Ltd.		
	B2	EP 0 337 626 A1	10-18-1989	PCI Membrane Systems Limited		
	B3	EP 0 574 791 B1	06-07-1993	Aventis Research & Technologies GmbH		
	B4	FR 2 793 450 A1	11-17-2000	Peugeot Citroen Automobiles SA	English Abstract	
	B5	WO 98/22989 A1	05-28-1998	University of Southern California		
	B6	WO 99/54389 A1	10-28-1999	Universitat of Stuttgart		
	B7	WO 99/54407 A2	10-28-1999	Universitat of Stuttgart		
	B8	WO 00/09610 A1	02-24-2000	The Research Foundation of State University of New York		
	B9	WO 00/22684 A2/A3	04-20-2000	Foster-Miller, Inc.		
	B10	WO 00/24796 A1	05-04-2000	Foster-Miller, Inc.		
	B11	WO 00/27513 A2	05-18-2000	Axiva GmbH		
	B12	WO 00/35032 A1	06-15-2000	Hockaday, Robert		
	B13	WO 00/52779 A1	09-08-2000	Motorola Inc.		

qNON PATENT LITERATURE DOCUMENTS			
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			Application Number	10/727,090	
			Filing Date	December 2, 2003	
			First Named Inventor	Bliven, David C.	
			Group Art Unit	1745	
			Examiner Name	Chuo, Tony Sheng Hsiang	
Sheet	10	of	11	Attorney Docket Number	A-71429/US/1/RMA (468940-00070)

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TC	C1	CHO, C., et al., "Synthesis and characterization of poly(arylene ether sulfone) copolymers with sulfonimide side groups," journal publication unknown.		
	C2	GAN, D., et al., "Synthesis and Characterization of Poly(Ether Ketone Ketone) (PEEK)/sodium sulfonated Poly(arylene ether ketone)(S-PAEK) Block Copolymers," Polym Int. 50, 4, 812-816 (2001).		
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	C4	HUFF, J.R., "Direct Methanol/Air Fuel Cells: Systems Considerations," Proc. Workshop Direct Methanol-Air Fuel Cells, A.R. Landgrebe, et al. (eds.), The Electrochemical Society, Inc.: Pennington, NJ:188-192 (1992).		
	C5	KERRES, J., et al., "Synthesis and characterization of novel acid-base polymer blends for application in membrane fuel cells," Solid State Ionics, 125:243-249, North Holland Publishing Co.: Amsterdam, NL 125(2):243-249 (1999).		
	C6	KIM, Y., et al., "Methanol permeation of sulfonated poly(arylene ether sulfone) block copolymers," Polymer Preprints 44(1):1254-1255 (2003).		
	C7	LANDGREBE, A.R., et al., "Direct Methanol-Air Fuel Cell: An Overview of the Workshop," Proc. Workshop Direct Methanol-Air Fuel Cells, A.R. Landgrebe, et al. (eds.), The Electrochemical Society, Inc.: Pennington, NJ 92(14):1-223 (1992).		
	C8	LIU, S., et al., "Novel sodium sulfonate-functionalized poly(ether ether ketone)s derived from 4,4'-thiodiphenol," Polymer 42(7):3293-3296 (Mar. 2001).		
	C9	LIU, S., et al., "Synthesis of Poly(ether ether ketone)s with high content of sodium sulfonate groups as gas dehumidification membrane materials," Macromol. Rapid Commun. 22(8):579-582 (2001).		
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	C11	MIYATAKE, K., et al., "Synthesis and Proton Conductivity of Highly Sulfonated Poly(thiophenylene)," Macromolecules 30:2941-2946 (1997).		
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	C15	UEDA, M., et al., "Synthesis and characterization of aromatic poly(ether sulfone)s containing pendant sodium sulfonate groups," J. Polymer Sci. A 31(3):852-858 (1992).		
	C16	WANG, F., et al., "Sodium sulfonate-functionalized poly(ether ether ketone)s," Macromol. Chem. Phys. 199(9):1421-1426 (1998).		
✓	C17	WANG, F., et al., "Synthesis of poly(ether ether ketone) containing sodium sulfonate groups as gas dehumidification membrane material," Macromol. Rapid Commun. 19(1):135-137 (1998).		

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			Group Art Unit	1745	
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TC	C18	WANG, J.-T., et al., "A H ₂ /O ₂ Fuel Cell Using Acid Doped Polybenzimidazole as Polymer Electrolyte," Proc. 1st Intl. Symp. Proton Conducting Membrane Fuel Cells I, S. Gottesfeld, et al. (eds.), Electrochem. Soc. Proc. 95(23):202-213 (1995).	
	C19	WILES, K.B., et al., "Poly(arylene thioether sulfone) copolymers for PEM-based fuel cell systems," Polymer Preprints 44(1):1089-1090 (2003).	
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